

OIPE

## RAW SEQUENCE LISTING

DATE: 06/19/2001

PATENT APPLICATION: US/09/774,490

TIME: 12:08:37

Input Set : A:\07334-138001.txt

Output Set: N:\CRF3\06192001\I774490.raw

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6 <120> TITLE OF INVENTION: RESISTANCE SEQUENCES AND USES THEREOF
9 <130> FILE REFERENCE: 07334-138001
11 <140> CURRENT APPLICATION NUMBER: US 09/774,490
12 <141> CURRENT FILING DATE: 2001-01-31
14 <150> PRIOR APPLICATION NUMBER: US 60/179,191
15 <151> PRIOR FILING DATE: 2000-01-31
17 <160> NUMBER OF SEQ ID NOS: 6
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23 <212> TYPE: DNA
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29 ccagattggt tgaacttctc tggcgcacac atacaggaag gaagactaaa gcagcaaagg      180
30 gacctacagc gtctgcagca tgggctgggt aactaggatt gtctgtcttt tctggggagt      240
31 attacttaca gcaagagcaa actatcagaa tgggaagaac aatgtgcaa ggctgaaatt      300
32 atcctacaaa gaaatgttgg aatccaacaa tgtgatcact ttcaatggct tggccaacag      360
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35 agtatcttac accagaagag atgaatgcaa gtgggctgga aaagacatcc tgaaagaatg      540
36 tgctaatttc atcaaggtac ttaaggcata taatcagact cacttgtacg cctgtggaac      600
37 gggggccttt catccaattt gcacctacat tgaatttga catcatcctg aggacaatat      660
38 ttttaagctg gagaactcac attttgaaaa cggccgtggg aagagtccat atgaccctaa      720
39 gctgctgaca gcatcccttt taatagatgg agaattatac tctggaactg cagctgattt      780
40 tatggggcga gactttgcta tcttcgaac tcttgggcac caccacccaa tcaggacaga      840
41 gcagcatgat tccaggtggc tcaatgatcc aaagttcatt agtgcccacc tcatctcaga      900
42 gagtgacaat cctgaagatg acaaagtata ctttttcttc cgtgaaaatg caatagatgg      960
43 agaacactct ggaaaagcta ctacgcctag aataggctcag atatgcaaga atgacttttg      1020
44 agggcacaga agtctggtga ataaatggac aacattcctc aaagctcgtc tgatttgcctc      1080
45 agtgccaggt ccaaattggc ttgacactca ttttgatgaa ctgcaggatg tattcctaatt      1140
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47 tttcaagggg tcagccgtgt gtatgtatag catgagtgat gtgagaaggg tgttccttgg      1260
48 tccatatgcc cacagggatg gacccaacta tcaatgggtg ccttatcaag gaagagtccc      1320
49 ctatccacgg ccaggaactt gtcccagcaa aacatttggt ggttttgact ctacaaagga      1380
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57 ctgtgcttgg gatggttctg catgttctcg ctattttccc actgcaaaga gacgcacaag      1860
58 acgacaagat ataagaaatg gagaccact gactcactgt tcagacttac accatgataa      1920
59 tcaccatggc cacagccctg aagagagaat catctatggt gtagagaata gtagcacatt      1980

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60	tttggaatgc	agtccgaagt	cgcagagagc	gctgggtctat	tggcaattcc	agaggcgaaa	2040
61	tgaagagcga	aaagaagaga	tcagagtggg	tgatcatatc	atcaggacag	atcaaggcct	2100
62	tctgctacgt	agtctacaac	agaaggattc	aggcaattac	ctctgccatg	cgggtggaaca	2160
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64	agaacttctt	cataaagatg	atgatggaga	tggctctaag	accaaagaaa	tgtccaatag	2280
65	catgacacct	agccagaagg	tctggtacag	agacttcatg	cagctcatca	accaccccaa	2340
66	tctcaacacg	atggatgagt	tctgtgaaca	agtttggaaa	agggaccgaa	aacaacgtcg	2400
67	gcaaaggcca	ggacataccc	cagggaacag	taacaaatgg	aagcacttac	aagaaaataa	2460
68	gaaaggtaga	aacaggagga	cccacgaatt	tgagagggca	cccaggagtg	tctgagctgc	2520
69	attacctcta	gaaacctcaa	acaagtagaa	acttgcctag	acaataactg	gaaaaacaaa	2580
70	tgcaatatac	atgaactttt	ttcatggcat	tatgtggatg	tttacaatgg	tgggaaattc	2640
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82	agatgtgagg	gtacttactg	gggctcgagg	aacatcctga	agctgtgggt	ctggacactg	180
83	ctctgtttgt	acttctgat	acaccatgga	actcactgtt	ggacttacca	ttattctgaa	240
84	aagcccatga	actgggaaaa	tgttagaaa	ttctgcaagc	aaaattacac	agatttagtc	300
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86	tactactgga	taggaatcag	gaaaattggg	aaaatgtgga	catgggtggg	aaccaacaaa	420
87	actctcacta	aagaagcaga	gaactggggg	gctggggagc	ccaacaacaa	gaagtccaag	480
88	gaggactgtg	tggagatcta	tatcaagagg	gaacgagact	ctgggaaatg	gaacgatgac	540
89	gcctgtcaca	aacgaaaggc	agctctctgc	tacacagcct	cttgccagcc	agggctcttg	600
90	aatggccgtg	gagaatgtgt	ggaaactatc	aacaatcaca	cgtgcatctg	tgatgcaggg	660
91	tattacgggc	cccagtgtca	gtatgtggtc	cagtgtgagc	ctttggaggc	ccctgagttg	720
92	ggtaccatgg	actgcatcca	ccccttggga	aacttcagct	tccagtccaa	gtgtgctttc	780
93	aactgttctg	aggggaagaga	gctacttggg	actgcagaaa	cacagtgtgg	agcatctgga	840
94	aactggatcat	ctccagagcc	aatctgccaa	gtgggtccagt	gtgagccttt	ggaggccctt	900
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107	tgcgcatagt	acgtacccta	tgtaacatcg	acaaaaatct	ttcatttcca	cctccaaaga	1680
108	acagtgtctc	attcaagttg	ggaaagtcc	acttccctctg	tagaccact	atctgtgagt	1740
109	gacagccact	gtagctgttc	acattaacct	tccccatctc	cttttcttag	gagaataatt	1800
110	ccacacactg	caccccatga	tggccaccaa	acatcaaaga	agggaaaatc	tcctgcattg	1860

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111 agtttttagtt ttgagttttt ctttctcttt attagatctc tgatgggttc ttgaagtcag      1920
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113 tgaagacaac aggtagaaaa attcctgggc tcaggctgga gtgacacct tttctttccc      2040
114 taacatcttc tactcagata cctaaattta agattcagga cagctgtccc caactcttac      2100
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126 gatccctgcc ccatctctgc tactgtccc cctgcagcca gacttccgga gcatcagtt      180
127 ccggggcagg tggtagttg tgggctggc aggcaatgcy gtccagaaaa aaacagaagg      240
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133 ccctgaactg aaggaacgtt tcaccgcctt tgccaagtct ctgggcctca aggacgacaa      600
134 catcatcttc tctgtctgtc tgccactcca tctttcctgt tgccagagag ccacctggct      660
135 gccccaccag ccaccatacc aaggagcatc tggagcctct tcttatttgg ccagcactcc      720
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137 ccaaaaaaaaa aaaaaaaggc cggccgc      807
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142 <213> ORGANISM: Mus musculus
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148 20 25 30
149 Leu Leu Thr Val Pro Leu Gln Pro Asp Phe Arg Ser Asp Gln Phe Arg
150 35 40 45
151 Gly Arg Trp Tyr Val Val Gly Leu Ala Gly Asn Ala Val Gln Lys Lys
152 50 55 60
153 Thr Glu Gly Ser Phe Thr Met Tyr Ser Thr Ile Tyr Glu Leu Gln Glu
154 65 70 75 80
155 Asn Asn Ser Tyr Asn Val Thr Ser Ile Leu Val Arg Asp Gln Asp Gln
156 85 90 95
157 Gly Cys Arg Tyr Trp Ile Arg Thr Phe Val Pro Ser Ser Arg Ala Gly
158 100 105 110
159 Gln Phe Thr Leu Gly Asn Met His Arg Tyr Pro Gln Val Gln Ser Tyr
160 115 120 125
161 Asn Val Gln Val Ala Thr Thr Asp Tyr Asn Gln Phe Ala Met Val Phe
162 130 135 140
163 Phe Arg Lys Thr Ser Glu Asn Lys Gln Tyr Phe Lys Ile Thr Leu Tyr

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164 145          150          155          160
165 Gly Arg Thr Lys Glu Leu Ser Pro Glu Leu Lys Glu Arg Phe Thr Arg
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167 Phe Ala Lys Ser Leu Gly Leu Lys Asp Asp Asn Ile Ile Phe Ser Val
168          180          185          190
169 Cys Leu Pro Leu His Leu Ser Cys Cys Gln Arg Ala Thr Trp Leu Pro
170          195          200          205
171 His Gln Pro Pro Tyr Gln Gly Ala Ser Gly Ala Ser Ser Tyr Leu Ala
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196 acccgtaaaa atgatgaatc ttgaggccac tttctgcttg ggtaacattg atgacatcag      780
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203 catcgagggt ccagggtccc ggatcttaca gcacaaggat gaattcaatg ctgaccatcc      1200
204 atttatttat atcattagac acaacaaaaa tcgaaacatc attttctttg gcaaattctg      1260
205 ttctccttag ctggcagggc cttgccaaat ctcagggaac ttgtctgtag tcgcagagct      1320
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217 ggataactgt gactccaggg ccgcaatgga tgccctgcaa ctagcaaatt cggcttttgc      180

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220	tgaatttgga	caggttcttc	attttgaaaa	tgtcaaagat	gtaccctttg	gatttcaaac	360
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